

# Science at Sea

A professional development workshop for educators in formal and informal venues



**Purpose:** Give educators first hand knowledge and experience of the role science and technology play in managing and protecting our natural resources, such as those found in Flower Garden Banks National Marine Sanctuary.

**Dates/Location:** June 21-25, 2010 in Galveston, Texas

**Tuition:** \$125 - includes lunch each day, breakfast and dinner on Wed, backpack of workshop materials & classroom resources

**Lodging:** not provided

**Format:** 3 days on land; 2 days on board R/V *Manta* (sanctuary research vessel) using a combination of presentations, student-directed explorations, demonstrations, group discussions, classroom activities, field exercises

**Topics covered:**

- Introduction to Flower Garden Banks National Marine Sanctuary
- Basic coral structure and biology
- Science investigations currently being conducted in the sanctuary
- Phytoplankton & Harmful Algal Bloom monitoring
- Water quality testing
- Technology: remotely operated vehicle (ROV), water samplers & test probes, microscopes, plankton nets (hand & vessel tow)

**Target grade levels:** Majority of information and activities presented will target grade 5 and higher. Educators of other grade levels are welcome to attend and adapt the information to their needs.

**SBEC Credit:** 35 hours (Texas State Board for Educator Certification Provider # 500590)

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